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THE ROLE OF MODERN INTERACTIVE TECHNOLOGIES IN RAISING THE LEVEL OF THE EDUCATIONAL PROCESS OF THE DEPARTMENT OF ANATOMY WITH CLINICAL ANATOMY AND OPERATIVE SURGERY OF POLTAVA STATE MEDICAL UNIVERSITY

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The period of development and formation of the educational process has passed a huge path of improvement, and despite all the gains and formations, the path to improvement continues. First of all, it is connected with adaptation to a new world in which the level of development of technological capabilities is gaining more and more progress [1]. Modern youth from childhood has constant contact with the digital and virtual world, and therefore the educational process must adapt to such changes, because the future of the nation depends on progressive youth who will continue and improve the education systems of the state, especially in the medical field [2,3].

Thus, the Department of Anatomy with Clinical Anatomy and Operative Surgery of the Poltava State Medical University has two interactive, multimedia 3D systems equipped with licensed topographic-anatomical programs with the ability to perform surgical interventions. The above-mentioned programs provide an opportunity to get acquainted in more detail with various human structures and organs, which correspond to the anatomical formations of the body as much as possible.

The 3D model allows students of higher education to familiarize themselves with the anatomical structure of a person in more detail, unlike ordinary images, it is possible to select any organ, bone or vessel, rotate it 360°, see it in a section and look inside. If you take the heart muscle separately, the program provides an opportunity to see the work of the valve apparatus and chordae during heart contraction. This is a really fascinating spectacle that opens a completely different level of perception and learning of the material.

I would also like to highlight the qualitatively reproduced structure of brain structures, when students of higher education when studying the nervous system can visually analyze anatomical formations, which has a more positive effect on learning the material.

It is impossible to bypass VR technologies, which are also supported by a multimedia system, when students of higher education can fully feel the effect of being in the operating room, carry out operative manipulations with their own hands, correct their mistakes and discover new knowledge.

Under such learning conditions, students of higher education become more interested in the subject of the class, have discussions and questions, which are solved together with the teacher in a surprisingly warm classroom atmosphere. Thanks to the combination of the theoretical and practical parts with the use of the latest interactive system, it became noticeable that the level of mastery of the material has a positive dynamic towards growth, and this is a very important element for further training and practical activities of higher education students.

Thanks to the interactive multimedia system, the teacher can conduct quizzes with test questions on any topic, where the program will automatically estimate the number of correct answers, form a score and indicate errors.

Thus, we can say with confidence that the introduction of the latest technologies into the educational process gives many positive moments for a better level of perception and assimilation of the material by students of higher education, opens another world of anatomical theater with bright colors, in which every student of higher education can become a hero and a winner .

References:

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